

STRUTLESS BUILDING MODULE AND
METHOD OF USING TO ASSEMBLE DOME STRUCTURES

ABSTRACT OF THE DISCLOSURE

A strutless building module comprising a polygon having a plurality of inclined faces that converge at the module center, said module center having a center connector, said module further having sides that angle downwardly from their respective module faces and including a plurality of insertion holes passing entirely through the side, wherein adjoining modules may be connected by placing modules side-to-side and passing bolts through aligned insertion holes. The modules have an elevated center formed at the convergence of the inclined module faces. The method of assembling the inventive modules into a dome structure comprises erecting a boom-free hoist at the intended center of the dome, said hoist having a winch and cable apparatus; connecting an array of modules into a first lift; connecting said cable apparatus to the center connectors of each module; elevating the first lift; connecting modules to the underside of the modules comprising the first lift; and thereafter repeating this process until the desired dome is completed.